



Attorney Docket No. TAN-339  
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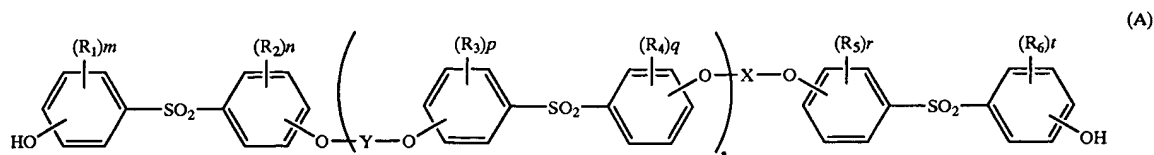
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: ) Group Art Unit: 1774  
OTSUHATA et al. ) Examiner: Bruce H. Hess  
Serial No.: 10/500,360 )  
Filed: June 30, 2004 )  
For: **THERMALLY SENSITIVE RECORDING MEDIUM**

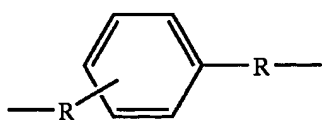
Appendix A

Please amend the claims as indicated according to 37 C.F.R.  
§ 1.121 concerning a manner for making claim amendments.

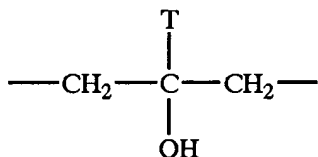
1. (Currently amended) A thermally sensitive recording medium comprising a thermally sensitive color developing layer containing colorless or pale colored basic leuco dye and a color developing agent as a main components on a substrate, wherein said thermally sensitive recording layer contains acrylic emulsion and colloidal silica, further contains at least one kind of diphenylsulfone bridgeable compound represented by general formula A as the color developing agent,



wherein X and Y can be different or same and indicates a saturated or an unsaturated linear or grafted hydrocarbon group of carbon number 1-12 which can possess an ether bond, or indicate,



or



wherein, R indicates a methylene group or an ethylene group, T indicates a hydrogen atom or an alkyl group of carbon number 1-4,

and  $R_1$ - $R_6$  independently a halogen atom, an alkyl group of carbon number 1-6, or an alkenyl group, further, m, n, p, q, r, t indicate an integer number of 0-4 and when are bigger than 2,  $R_1$ - $R_6$  can be different, and a is an integer of 0-10

said diphenylsulfone bridgeable compound having an average particle diameter of 0.5  $\mu\text{m}$ ,

said colloidal silica having a particle size of 10-25 nm and,

said acrylic emulsion being blended to the thermally sensitive recording layer in a blending amount of 3-50 weight parts of the acrylic emulsion to 100 weight parts of the thermally sensitive recording layer .

2. (Original) The thermally sensitive recording medium of claim 1, wherein the thermally sensitive recording layer contains inorganic pigment whose average particle size is 3 to 300  $\mu\text{m}$ .

3. (Previously presented) A method for the preparation of a thermally sensitive recording medium providing a thermally sensitive recording layer containing colorless or pale colored basic leuco dye and a color developing agent as a main components on a substrate, wherein said thermally sensitive recording layer contains acrylic emulsion and colloidal silica, comprising coating said thermally sensitive recording layer on said substrate by means of an air knife coater.